

United States of America
Department of Transportation Federal Aviation Administration
Supplemental Type Certificate

Number SA53NW

This certificate, issued to: Merlyn Products, Inc.
West 7500 Park Drive
Spokane, WA 99224-5726

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 4a of the Civil Air Regulations.

Original Product—Type Certificate Number: A-766

Make: Universal (Globe)

Model: GC-1B

Description of the Type Design Change: Installation of Continental IO-360 series engines including IO-360 series engines modified in accordance with STC SE01559SE, a McCauley D2A34C67/76C-2 propeller; closure of wing tip slots, and associated changes in accordance with Merlyn Products Inc. Report Number 02-1, dated July 10, 1973, (amended February 24, 1986) and with drawings 02-1001, 02-1002, 02-1003, 02-1004, 02-2001, and 02-2002.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the aircraft. A copy of this certificate, and Installation Instructions Report No. 02-1 shall be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. (See Continuation on Page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: January 29, 1972

Date reissued: July 21, 1986

Date of issuance: July 23, 1973

Date amended: 7/7/75, 9/9/76, 3/28/77, 7/21/86, 6/3/2005



By direction of the Administrator

(Signature)
Acting Manager, Seattle Aircraft
Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States of America
Department of Transportation Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA53NW

Merlyn Products, Inc.
Reissued: July 21, 1986
Amended: July 7, 1975, September 9, 1976, March 28, 1977, July 21, 1986, June 3, 2005

Limitations and Conditions: (cont'd)

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA53NW

The conditions and limitations of the original specification apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA53NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Civil Air Regulation 4a. A copy of this Addendum must be maintained as part of the modified aircraft's permanent records.

I. GLOBE GC-1B (LANDPLANE – NORMAL CATEGORY) AS MODIFIED BY STC SA53NW

Engine:	Continental IO-360 series engines including the IO-360 engines modified in accordance with STC SE01559SE
Fuel:	100/130 minimum grade aviation gasoline
Engine Limits:	210 HP @ 2800 RPM – Sea Level
Propeller and Limits:	McCauley D2A34C67/76C-2 Diameter 74 In Max, 70 In Min Static RPM 2800; Limitations: None
C.G. Range:	29.6 In to 33.0 In @ 1710 Pounds.
Maximum Weight:	1710 Lbs
Datum:	Forward face of firewall at bottom.
Oil Capacity:	10 Quarts

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Supplemental Type Certificate

(Continuation Sheet)

Number SA53NW

Merlyn Products, Inc.

Reissued: July 21, 1986

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Limitations and Conditions: (cont'd)

Instrument Markings: Oil Temperature: 240 deg F (Red Line)
 Oil Pressure: 30 –60 psi (Green Arc)
 Air Speed: 52 mph to 90 mph (White Arc)
 60 mph to 140 mph (Green Arc)
 140 mph to 185 mph (Yellow Arc)
 185 mph (red line)
 Tachometer: 2200 – 2800 RPM (Green Arc)
 2800 RPM (Red Line) Maximum

Note 1: Current weight and balance report including list of equipment in the certified empty weight must be in the aircraft.

Note 2: The closure of the wing tip slots may apply to the Tempco T-35 Buckaroo wing tips or Lift Tips per STC SA2-1241

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